

HISTORIC AMERICAN ENGINEERING RECORD

INDEX TO PHOTOGRAPHS

HAER No. PA-109-A

CAMBRIA IRON COMPANY, BLACKSMITH SHOP
(Bethlehem Steel Company, Blacksmith Shop)
Cambria Iron Works
Lower Works
Johnstown
Cambria County
Pennsylvania

Jet Lowe, photographer, 1987

- PA-109-A-1 VIEW OF SOUTH FACADE LOOKING NORTH, SHOWING ORIGINAL OCTAGON AND ADDITIONS (SEE MEASURED DRAWINGS FOR BUILDING DETAILS)
- PA-109-A-2 VIEW OF SOUTH FACADE LOOKING NORTHWEST. DATE ON BUILDING IS INCORRECT, ACTUALLY CONSTRUCTED CA. 1864.
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- PA-109-A-4 GENERAL INTERIOR VIEW OF OCTAGON SHOWING TWO 3,000-POUND STEAM HAMMERS ON EITHER SIDE OF CAST-IRON SUPPORT COLUMN. SEE A-12 AND A-13 FOR DETAIL.
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- PA-109-A-10 VIEW OF ROOF FRAMING SHOWING DETAIL OF TIMBER HOWE TRUSS. 2,000-POUND MOTOR-DRIVEN HAMMER, 1940, BY CHAMBERSBURG ENGINEERING COMPANY, CHAMBERSBURG, PENNSYLVANIA, VISIBLE TO LEFT ON FLOOR.
- PA-109-A-11 VIEW OF GAS-FIRED FURNACES IN OCTAGON BUILDING

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PA-109-A-12 DETAIL VIEW OF INTERIOR SHOWING TWO 3,000-POUND
STEAM HAMMERS, CA. 1905, CONVERTED TO COMPRESSED
AIR 1985 (MANUFACTURED BY CHAMBERSBURG ENGINEERING
COMPANY, CHAMBERSBURG, PENNSYLVANIA), LOCATED ON
EITHER SIDE OF CAST-IRON CENTRAL SUPPORT COLUMN.

PA-109-A-13 DETAIL VIEW OF ORIGINALLY STEAM POWERED NOW
ELECTRIC 2,000-POUND MOTOR-DRIVEN HAMMER, CA. 1940,
BY CHAMBERSBURG ENGINEERING COMPANY.

PA-109-A-14 VIEW OF INTERIOR OF EAST ANNEX SHOWING 5-TON STEAM
HAMMER TO LEFT. SEE A-15 TO A-17 FOR DETAIL.

PA-109-A-15 DETAIL VIEW OF 5-TON STEAM HAMMER IN EAST ANNEX,
CA. 1885, MANUFACTURED BY W.H. SELLERS COMPANY,
PHILADELPHIA, PENNSYLVANIA.

PA-109-A-16 DETAIL VIEW OF SAME 5-TON STEAM HAMMER.

PA-109-A-17 DETAIL VIEW OF SAME 5-TON STEAM HAMMER.

Note: The following views show the production of testing
specimens for product specifications and
requirements.

PA-109-A-18 VIEW OF METAL SPECIMAN REMOVED FROM FURNACE, LYING
ON METAL FLOORING. TOM SMITH, BLACKSMITH, IN
MIDDLEGROUND.

PA-109-A-19 VIEW OF SMITH FORGING METAL SPECIMEN USING 3,000-
POUND DROP HAMMER NO. 1.

PA-109-A-20 VIEW OF SMITH FORGING METAL SPECIMEN USING 3,000-
POUND DROP HAMMER NO. 1, MAN TO RIGHT IS OPERATING
HAMMER WHILE OTHER SHAPES SPECIMEN.

PA-109-A-21 DROP HAMMER IN OPERATION.

PA-109-A-22 SIMILAR VIEW, SMITH POSITIONING SPECIMEN WITH
TONGS.

PA-109-A-23 DROP HAMMER IN OPERATION.

PA-109-A-24 DROP HAMMER IN OPERATION.

PA-109-A-25 DROP HAMMER IN OPERATION.

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PA-109-A-26 DROP HAMMER IN OPERATION.

PA-109-A-27 DROP HAMMER IN OPERATION.

PA-109-A-28 VIEW OF DROP HAMMER IN OPERATION, FINAL PROCESS OF
SCORING AND SHEARING METAL SPECIMEN.